## **CLAIMS**

## WHAT IS CLAIMED IS: WHAT IS CLAIMED IS:

1. An expandable downhole anchoring tool positionable within a wellbore for use in cooperation with drilling equipment comprising:

a body including a plurality of angled channels formed into a wall of said body; and a plurality of moveable slips, wherein said plurality of moveable slips translates along said plurality of angled channels between a collapsed position and an expanded position.

- 2. The tool of claim 1 wherein said plurality of slips includes a plurality of extensions corresponding to and engaging said plurality of channels.
- 3. The tool of claim 1 wherein said extensions and said channels comprise a drive mechanism for moving said plurality of slips between said collapsed position and said expanded position.
- 4. The tool of claim 1 wherein said extensions and said channels support loading on said plurality of slips in said expanded position.
- 5. The tool of claim 1 wherein said plurality of slips comprises at least one pair of slips spaced apart circumferentially around said tool body.
- 6. The tool of claim 1 wherein said plurality of slips comprises a first pair of slips spaced apart circumferentially and a second pair of slips spaced circumferentially around said tool body, wherein said first pair of slips are offset about 90° from said second pair of slips.
- 7. The tool of claim 1 wherein said plurality of slips includes angled surfaces for collapsing said slips into said body.

- 8. The tool of claim 1 and an axial flowbore extends through said body.
- 9. The tool of claim 1 further including a piston that translates said plurality of slips from said collapsed position to said expanded position.
- 10. The tool of claim 1 wherein said plurality of slips grippingly engage said wellbore in said expanded position.
- 11. The tool of claim 1 wherein said plurality of slips are adapted to grippingly engage the wellbore.
- 12. The tool of claim 11 wherein each of said plurality of slips include at least one carbide insert for grippingly engaging said wellbore in said expanded position.
- 13. The tool of claim 11 wherein said plurality of slips includes a plurality of threads radially and axially aligned to resist axial and torsional forces for grippingly engaging said wellbore in said expanded position.
- 14. The tool of claim 1 further including a locking means for preventing said plurality of slips from translating between said expanded position and said collapsed position.
- 15. The tool of claim 1 further including a releasing means for allowing said plurality of slips from translating between said expanded position and said collapsed position.
- 16. An expandable downhole anchoring tool positionable within a wellbore for use in cooperation with drilling equipment comprising:

a mandrel;

at least one slip housing having a plurality of angled channels; and

at least one pair of individual slips that translates along said angled channels between a collapsed position and an expanded position, wherein said individual slips include a cavity for matingly engaging said mandrel while in said collapsed position.

- 17. The tool of claim 16 wherein said at least one pair of slips includes a plurality of extensions corresponding to and engaging said plurality of channels.
- 18. The tool of claim 16 wherein said extensions and said channels comprise a drive mechanism for moving said at least one pair of slips between said collapsed position and said expanded position.
- 19. The tool of claim 16 wherein said extensions and said channels support loading on said at least one pair of slips in said expanded position.
- 20. The tool of claim 16 wherein said at least one pair of slips comprises at least one pair of slips spaced apart circumferentially around said tool body.
- 21. The tool of claim 16 wherein said at least one pair of slips comprises a first pair of slips spaced apart circumferentially and a second pair of slips spaced circumferentially around said tool body, wherein said first pair of slips are offset about 90° from said second pair of slips.
- 22. The tool of claim 16 wherein said at least one pair of slips includes angled surfaces for collapsing said slips into said body.
- 23. The tool of claim 16 and an axial flowbore extends through said mandrel.
- 24. The tool of claim 16 further including a piston that translates said at least one pair of slips from said collapsed position to said expanded position.

- 25. The tool of claim 16 wherein said at least one pair of slips grippingly engages said wellbore in said expanded position.
- 26. The tool of claim 16 wherein said at least one pair of slips are adapted to grippingly engage the wellbore.
- 27. The tool of claim 26 wherein said slips comprise at least one carbide insert for grippingly engaging said wellbore in said expanded position.
- 28. The tool of claim 26 wherein said at least one pair of slips includes a plurality of threads radially and axially aligned to resist axial and torsional forces for grippingly engaging said wellbore in said expanded position.
- 29. The tool of claim 16 further including a locking means for preventing said at least one pair of slips from translating between said expanded position and said collapsed position.
- 30. The tool of claim 16 further including a releasing means for allowing said plurality of slips from translating between said expanded position and said collapsed position.